

HYBRID VEHICLE CONTROL APPARATUS

ABSTRACT OF THE DISCLOSURE

A hybrid vehicle control apparatus controls an engine that rotates at least one first wheel and a mechanically independent electric motor that rotates at least one second wheel.

- 5 The hybrid vehicle control apparatus stabilizes the vehicle driving performance when drive forces are obtained from both the engine and the electric motor. Thus, the hybrid vehicle control apparatus stabilizes 4WD travel over a wide range using an engine and a comparatively small electric motor. The target front (motor-driven) wheel drive torque is calculated by subtracting the target rear (engine-driven) wheel drive torque from the total
- 10 target drive torque. Meanwhile, the motor torque upper limit value is estimated from the motor rotational speed. If the front wheel target drive torque exceeds the motor torque upper limit value, the drive torque ΔT , which corresponds to the amount by which the motor torque is insufficient, is added to the rear wheel target drive torque.